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# Engineering Experiment Station Bulletin

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University of Kentucky  
College of Engineering

PROCEEDINGS OF THE  
KENTUCKY HIGHWAY CONFERENCE  
MARCH 5-6, 1963



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ENGINEERING EXPERIMENT STATION BULLETIN SERIES

Published by the University of Kentucky, Lexington

UNIVERSITY OF KENTUCKY  
ENGINEERING RESEARCH

PROCEEDINGS OF THE  
KENTUCKY HIGHWAY CONFERENCE  
MARCH 5-6, 1963

Edited By  
E. EVERETT ELSEY  
Professor of Engineering Research

BULLETIN NO. 68  
JUNE 1963



The Engineering Experiment Station  
College of Engineering  
University of Kentucky  
Lexington



**UNIVERSITY OF KENTUCKY**  
**ENGINEERING EXPERIMENT STATION**

**ORGANIZATION**

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Executive Vice President of the University

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**E. Everett Elsey**  
Editor of the Engineering Experiment Station Bulletins

The Engineering Experiment Station of the College of Engineering was established on July 1, 1946, by an act of the Board of Trustees of the University of Kentucky. Its objectives are:

- (1) To organize, initiate and promote engineering research of special interest to the State.
- (2) To aid and consult with industry regarding its research problems.
- (3) To promote the conservation and utilization of the State's resources.
- (4) To provide support for research training in the fundamental and applied sciences.

The management of the Engineering Experiment Station is vested in a Director and an Executive Committee which controls its policies and operation. They are as follows:

Director: Dean of the College of Engineering

Head of the Department of Chemical Engineering

Head of the Department of Civil Engineering

Head of the Department of Electrical Engineering

Head of the Department of Mechanical Engineering

Head of the Department of Mining and Metallurgical Engineering

To make available to the interested public the results of its industrial research and investigations, the Engineering Experiment Station publishes and distributes a series of bulletins each year.

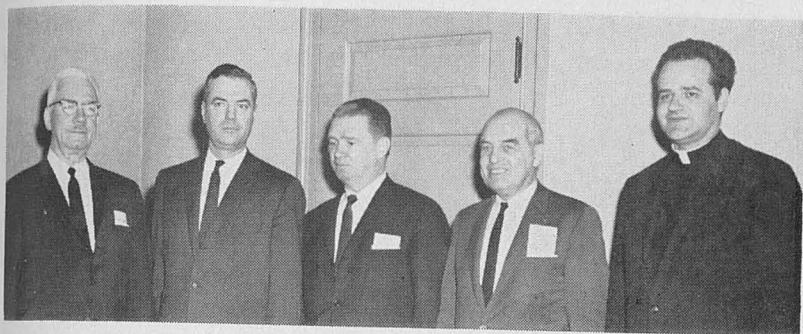
For copies of publications or for other information address:

**Engineering Experiment Station**

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**College of Engineering**

**Lexington, Kentucky**



Speakers, Tuesday Morning General Session—Dr. Bertram D. Tallamy, Dr. Frank G. Dickey, Commissioner Henry Ward, Judge Bart N. Peak, Father Elmer Moore.

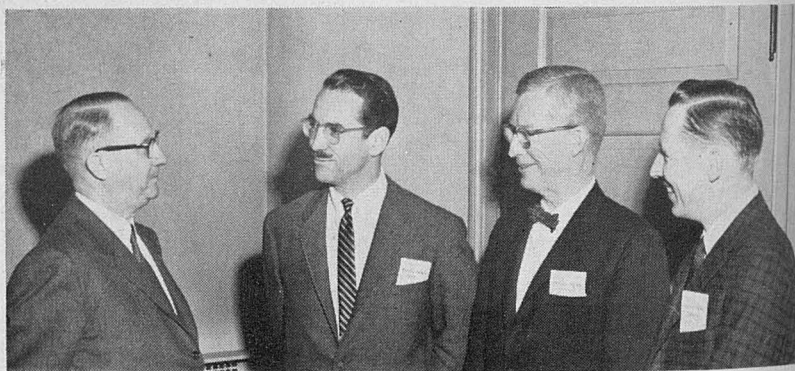


Tuesday Luncheon Meeting—D. H. Bray, Governor Bert T. Combs, Dean R. E. Shaver, Henry Ward.





Speakers, Tuesday Afternoon General Session—D. H. Bray, Howard Bussard, P. E. Boyer, Robert F. Baker.



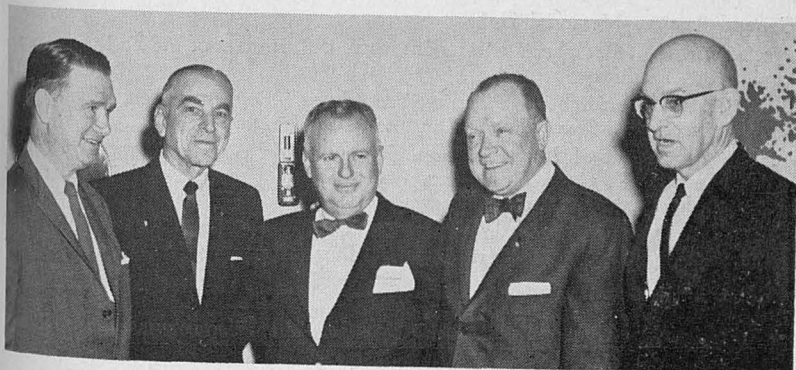
Speakers, Wednesday Morning General Session—J. C. Cobb, Grady Clay, Roy Jorgensen, Kenneth E. Cook.



Wednesday Luncheon—Stanton Walker, D. V. Terrell, Mayor Ray Arnold.



Wednesday Afternoon General Session—Carl P. Kroboth, Robert Gillim, Mitchell W. Tinder.



Annual Dinner—Henry Ward, Fred Wachs, R. E. Gaddie, Mayor Ben West, W. O. Snyder.

PROGRAM  
Fifteenth Annual  
KENTUCKY HIGHWAY CONFERENCE

TUESDAY, MARCH 5, 1963, MORNING

Registration—Memorial Hall, 8:30-10:15 E.S.T.

General Session—Memorial Hall

Presiding: Judge Bart N. Peak, Fayette County, President, County Judges Association

1. Invocation—Father Elmer Moore, Newman Club, University of Kentucky
2. Welcome to University—Dr. Frank G. Dickey, President
3. Remarks—Mr. Henry Ward, Commissioner of Highways
4. "The Significance of Highway Maintenance," Dr. Bertram D. Tallamy, Consulting Engineer, Washington, D. C.

Luncheon—12:00-1:45 E.S.T., Blue Grass Room, Student Union Building

Presiding: Dean R. E. Shaver, College of Engineering

Address: Governor Bert T. Combs

TUESDAY AFTERNOON

General Session—Memorial Hall, 2:00-4:30 E.S.T.

Presiding: Mr. D. H. Bray, State Highway Engineer

2:00 "County Road Management," Howard Bussard, P.E., County Highway Engineer, Automotive Safety Foundation, Washington, D.C.

2:45 "Highway Maintenance Equipment," P. E. Boyer, Administrator, Bureau of Motor Transportation, Ohio Department of Highways, Columbus, Ohio

3:30 "Recent Developments in Maintenance Concepts," Robert F. Baker, Director of Research and Development, Bureau of Public Roads, Washington, D.C.

Discussion

WEDNESDAY MORNING, MARCH 6, 1963—9:30-12:00 E.S.T.

General Session—Memorial Hall

Presiding: Mr. J. C. Cobb, Division Engineer, U.S. Bureau of Public Roads, Frankfort, Kentucky

9:30 "State-Wide Highway Planning Procedures," Roy Jorgensen, Highway Engineering & Management Consultant, Washington 14, D.C.

10:15 "The Effect of Limited Access Highways on Adjacent Property Values," Kenneth E. Cook, Supervisor, Right-of-Way Research and Training, Kentucky Department of Highways.

11:00 "The Public's Interest in Highways," Grady Clay, Real Estate and Building Editor, Louisville Courier-Journal; Editor, Landscape Architecture Quarterly

Discussion

Luncheon—12:00-1:45 P.M., E.S.T., Blue Grass Room, Student Union Building

Presiding: Ray Arnold, Mayor, Danville, Kentucky, President, Kentucky Municipal League.

Film: "Roads to Progress"



### WEDNESDAY AFTERNOON

General Session—Blue Grass Room, 2:00-4:30

Presiding: Mitchell W. Tinder, Director, Division of Toll Facilities

2:00 "Green River Bridges on the West Kentucky Turnpike," Robert Gillim, Brighton Engineering Company, Louisville; Carl P. Kroboth, Consulting Structural Engineer, Lexington

3:00 "Quality Requirements for Concrete Aggregate," Stanton Walker, Director of Engineering, Emeritus, National Sand & Gravel Association, Washington, D. C.

3:45 "Standardization of Specifications," James S. Hill, Assistant Director of Construction, Kentucky Department of Highways.

Discussion

Annual Dinner—Sponsored by the Kentucky Association of Highway Contractors  
Admission by Ticket, 6:00 P.M., E.S.T., Phoenix Hotel

Presiding: R. E. Gaddie, Vice-President, Kentucky Association of Highway Contractors

Address: Honorable Ben West, Mayor, Nashville, Tennessee